CENTRAL INTELLIGENCE AGENCY REPORT 25X1 INFORMATION REPOR CD DATE DISTR. PROPERTY NO. OF PAGES **開始把CT** NO. OF ENCLS. 0.18764 PLACE (LISTED BELOW) ACQUIRED 25X1 SUPPLEMENT TO DATE OF REPORT NO. INFO. 25X1 THIS IS UNEVALUATED INFORMATION 25X1 oepenick to start development of A communications order This project was given plan number hyperbolic navigation in 1952. Chief Engineer Erich ₹2-02 and was to be Huettmenn, under the overall supervision of Development Chief Bernhard Vincelberg was put in charge of the project.

the Ecolomic Plan characterizes the project.

(Kennwort) "Hyperbelnavigationsverfahren" as The 1952 form sheet scheduled to permit position finding for a 90 to eat+ 5.000 DME was provided for on the Tere 50,000 DME. Development was ompleted by quarter 1954. culties arose in trying to carry During 1952 me rk was mainly confined to the study out the projec are. The technicians of Funkwerk Koepenick did of available I not obtain the expected support of the Main Administration for Wireless Telecommunications (HV Funk) in the procurement of material; direction of the development was changed several times. At the end of 1952 the project was reviewed and put under the overall supervision of Wilhelm Grimm, with Guenther Hintze as the responsible director 66 the project. The form sheet for the 1953 Beonomic Plan gives the fellowing data: or position finding Theme: Long-distance navigation Key word: Weitnavigationsverfahren Instruments are to ed whahh Technical characteristics: determine permit ships and a tances their positions ov 25 YEAR RE-REVIEW 25X1 X NSRB DISTRIBUTION X NAVY

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Co-ordination:

Finance Source:

Costs:

Completion Date:

1953 work schedule:

cannot be given at present because the transfer made as to the transfer to be used.

Provisional co-ordination with the Ministry for Post and Telecommunications. Necessity of project has been confirmed.

Central Research and Development Funds.

Total costs amount to 450,000 DME, including the 1952 share of 50,000 DME. In 1953 a total of 156,000 DME is to be spent (material costs: 17,300 DME; fabrication costs: 96,600 DME; special costs such purchase of the special total costs and purchase of the special total costs.

Deferred to fourth quarter 1955.

Preparatory work and laboratory development. The Technical-Scientific vation accompanying the 1953 s:

vigation is selected as a selected as a

in fam is necessary is catch up with foreign national.

During 1953 the project met with new difficulties. It was charged from a development project to a research project. Progress made from January through 30 august 1953 is given in the following extracts of monthly progress reports of Department TEE of Funkwerk Koepenick:

# a. January 1953

Fegert (fin), who had been in charge of the project, left the firm at the end of 1952. His work was not particularly successful. Some ideas which were advanced had to be abandoned because it was impossible to attain the required accuracy of location (Ortungsgenauigkeit) by circumventing DECCA patents with the aid of a frame direction finder

ped in such a way that measurement of the existing DECOA chains would be possible. It is easied whether this could be done. In mid-January, a conference was to take place with Dr. Vinzelberg, Jung, Dr. Schuettloeffel, Heatre and Grimm in order to work out the position of Funkerk Koepenick visables the Main Administration for Wireless Relecommunications.

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# SECRET CONTROLATES. CHITCIALS ONLY

I This was to permit small coath having no special equipment other than a regular communications radio received to

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### b. February 1953

The status did not change, since no technician in charge (Sachbearbeiter) was available. The conference which was to establish Funkwerk Koepenick's position (see above) did not take place.

### c. March 1953

After a conference with the Hydrographic Service (Seehydrographischer Dienst) it was decided to start development of a receiver instrument without taking into consideration existing East German transmitters.

This would make it possible to become acquainted with the problems under study and to betain practical experience. Thus, a functional reconstruction (functional reconstruction (functional reconstruction (functional recenstruction) (functiona

## d. April 1953

Funkwerk Koepenick requested the Main Administration for Wireless

teations/thrn over all available material on the DECCA

te principle of the way in which an accurate position—incre (Feinortung) works has in the meantime been cleared

up to such a extent that Funkwerk Koepenick can consider proceeding

with the construction of the wiring (Schaltungsmaessiger Aufbau).

However, the principle of the procedure for rough position—finite and

(Grobortung) had not been cleared up. It was planned to carry out

measurements bearing on the DECCA chain

Lambrecht (fnu) agreed to study the decometer problem. Department TEE made available to Lambrech

which are known. Funkwerk Koe near future; however, i the exact frequencies have been

# e. July 1953

Hintze, who was in charge of hyperbolic navigation, was on leave.

A detailed report was to be made during August 1953. The intermediate frequency amplifier had been built. The receiver for the master transmitter (Muttersender) was being me amplifying part (Verstaerkerteil) had be impleted.

Work was concentrated on the discrimination would then permit Funkwerk Koepenick to carry out accurate measurements.

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# f. 30 August 1953

extended into 1954
The provisory init
report had to be ell
proposition contained in it was to be put forth as a research
proposition for next year. Work was progressing on the sub-order
on the development of decometers issued to ZEG. Some types of
rotating indicators (Drehmelder) had been investigated for their
usability. The degree of accuracy attained was about 20 percent.
This value appeared to be usable. However, the great power demand
(teistungsbedarf) of about 10 watts for each of the two deviation
coils (Ablenkspulen) of the system continued to be very disadvantageous. Grimm advanced the proposition the
ibly finding a less exten

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mfangreicher Aufbau der D

Comment. As received. Probably Drehstrom (three-phase alternating current) was meant.

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